

Serial No. 10/766,039

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND the claims as follows:

1. (currently amended) A computer-implemented search processing method, comprising:

searching a predetermined document group according to a first search condition specified by a user to extract data of a plurality of documents as extracted documents from a storage that stores said predetermined document group;

first transforming said extracted data of said plurality of documents into first display information that indicates said extracted data of said plurality of documents to said user in a first display form that includes one or more generated displayed items ~~and to enable said user to select a generated display item~~, which is generated from said extracted data of said plurality of documents, and selectable by said user by selecting a displayed region of the one or more displayed items ~~for to be utilized as a second search condition in a follow up search process using a second search condition~~, and outputting the transformed information in the first display form;

receiving from said user designation of a second display form different from said first display form;

extracting data of documents corresponding to said selected generated display item from said storage and/or from said extracted data of said plurality of documents; and

second transforming said extracted data of said documents corresponding to said selected generated display item as extracted selected data into second display information that indicates said extracted selected data to said user in ~~said a~~ second user designated display form ~~and to enable said user to select a display item from said extracted selected data to be utilized as a third search condition in~~ that includes one or more generated displayed items selectable by said user by selecting a displayed region of the one or more displayed items ~~for a follow up search process using a third search condition~~, and outputting the transformed

Serial No. 10/766,039

information in the second user designated display form,

wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents,

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

2. (cancelled)

3. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

dividing said extracted documents into clusters by using based upon said extracted data of said extracted documents;

extracting second data to be displayed from said extracted data of said extracted documents, wherein a type of the extracted second data is predefined for said first display form; and

generating, for each said cluster, information to display the extracted second data as the one or more generated selectable displayed items to be utilized ~~as said second search condition~~ in said follow up search process using said second search condition.

4. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

Serial No. 10/766,039

calculating a degree of relevancy between said extracted documents ~~by using~~based upon said extracted data of said extracted documents;

extracting, for each extracted document, a first data item to be displayed from said extracted data of said extracted documents, wherein a type of said extracted first data item is predefined for said first display form; and

generating information to display the extracted first data items as the one or more generated selectable displayed items to be utilized ~~as said second search condition~~ in said follow up search process using said second search condition, and a segment that connects between said extracted first data items and represents the calculated degree of relevancy between said extracted documents corresponding to said extracted first data items.

5. (previously presented) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

dividing said extracted documents into classes based on used words included in said extracted data of said extracted documents, and counting a number of documents in each said class based on a specific matter predefined for said first display form; and

generating information to display the counting result.

6. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

calculating a degree of relevancy between used words included in said extracted data of said extracted documents; and

generating information to display said used words as the one or more generated selectable displayed items to be utilized ~~as said second search condition~~ in said follow up search process using said second search condition, and a segment that connects between said used words and represents the calculated degree of relevancy between said used words.

7. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

relating said extracted documents into document groups based on a specific matter predefined for said first display form;

calculating a degree of relevancy between said document group and a used word included in said extracted data of said extracted documents; and

Serial No. 10/766,039

generating information to display said document groups by said data of said specific matter, and the calculated degree of relevancy between said document group and said used word by a segment connecting between said document group and said used word, wherein said document group and said used word as the one or more generated selectable displayed items are to be utilized ~~as said second search condition in said follow up search process~~ using said second search condition.

8. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

dividing said documents corresponding to said selected generated display item into clusters ~~by using~~ based upon said data of said documents corresponding to said selected generated display item;

extracting third data to be displayed from said data of said documents corresponding to said selected generated display item, wherein a type of the extracted third data is predefined for said second user designated display form; and

generating, for each said cluster, information to display the extracted third data as the one or more generated selectable displayed items to be utilized ~~as said third search condition in said follow up search process~~ using said third search condition.

9. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

calculating a degree of relevancy between said documents corresponding to said selected generated display item ~~by using~~ based upon said data of said documents corresponding to said selected generated display item;

extracting, for each of said documents corresponding to said selected generated display item, a second data item to be displayed from said data of said documents corresponding to said selected generated display item, wherein a type of said extracted second data item is predefined for said second display form; and

generating information to display the extracted second data items as the one or more generated selectable displayed items to be utilized ~~as said third search condition in said follow up search process~~ using said third search condition, and a segment that connects between said extracted second data items and represents the calculated degree of relevancy between said documents corresponding to said extracted second data item.

Serial No. 10/766,039

10. (previously presented) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

dividing said documents corresponding to said selected generated display item into classes based on used words included in said data of said documents corresponding to said selected generated display item, and counting a number of documents in each said class based on a specific matter predefined for said second display form; and
generating information to display the counting result.

11. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

calculating a degree of relevancy between used words included in said extracted data of said documents corresponding to said selected generated display item; and

generating information to display said used words as the one or more generated selectable displayed items to be utilized ~~as said third search condition~~ in said follow up search process using said third search condition, and a segment that connects between said used words and represents the calculated degree of relevancy between said used words.

12. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

categorizing said documents corresponding to said selected generated display item into document groups based on a specific matter predefined for said second display form;

calculating a degree of relevancy between said document group and a used word included in said data of said documents corresponding to said selected generated display item; and

generating information to display said document groups by said data of said specific matter, and the calculated degree of relevancy between said document group and said used word by a segment connecting between said document group and said used word, wherein said document group and said used word as the one or more generated selectable displayed items are to be utilized ~~as said third search condition~~ in said follow up search process using said second search condition.

13. (Previously Presented) The computer-implemented search processing method as

Serial No. 10/766,039

set forth in claim 1, wherein a document included in said predetermined document group is a patent document, and said display item is either of bibliographic information of said patent document and a used word in said patent document.

14. (Previously Presented) The computer-implemented search processing method as set forth in claim 1, wherein at least either of said first and second transformings comprises specifying a display program corresponding to a display form, and generating information for said display program.

15. (Previously Presented) The computer-implemented search processing method as set forth in claim 1, wherein at least either of said first and second display forms is an arbitrary combination of predefined display forms.

16. (currently amended) A computer readable medium storing instructions being executable by a processor to perform operations comprising:

searching a predetermined document group according to a first search condition specified by a user to extract data of a plurality of documents as extracted documents from a storage that stores said predetermined document group;

first transforming said extracted data of said plurality of documents into first display information that indicates said extracted data of said plurality of documents to said user in a first display form that includes one or more generated display items ~~and to enable said user to select a generated display item~~, which is generated from said extracted data of said plurality of documents, and selectable by said user by selecting a displayed region of the one or more displayed items for to be utilized as a second search condition in a follow up search process using a second search condition, and outputting the transformed information in the first display form;

receiving from said user designation of a second display form different from said first display form;

extracting data of documents corresponding to said selected generated display item from said storage and/or from said extracted data of said plurality of documents; and

second transforming said extracted data of said documents corresponding to said selected generated display item as extracted selected data into second display information to indicate that indicates said extracted selected data of to said user in said second user

Serial No. 10/766,039

~~designated display form and to enable said user to select a display item from said extracted selected data to be utilized as a third search condition in~~ that includes one or more generated displayed items selectable by said user by selecting a displayed region of the one or more displayed items for a follow up search process using a third search condition, and outputting the second transformed information in the second user designated display form,

wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents,

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

17. (cancelled).

18. (currently amended) A search processing apparatus, comprising:

a storage that stores a predetermined document group;

a search unit that searches said predetermined document group according to a first search condition specified by a user to extract data of a plurality of documents as extracted document from said storage;

a first transformer that transforms said extracted data of said plurality of documents into first display information to indicate that indicates said extracted data of said plurality of documents to said user in a first display form that includes one or more generated displayed items and to enable said user to select a generated display item, which is generated from said extracted data

Serial No. 10/766,039

of said plurality of documents, and selectable by said user by selecting a displayed region of the one or more displayed items for to be utilized as a second search condition in a follow up search process using a second search condition, and outputs the transformed information in the first display form;

a receiver that receives from said user designation of a second display form different from said first display form;

an extractor that extracts data of documents corresponding to said selected generated display item from said storage and/or from said data extracted of said plurality of documents; and

a second transformer that transforms said extracted data of said documents corresponding to said selected generated display item as extracted selected data into second display information to indicate that indicates said extracted selected data to said user in said a second user designated display form and to enable said user to select a display item from said extracted selected data to be utilized as a third search condition in that includes one or more generated displayed items selectable by said user by selecting a displayed region of the one or more displayed items for a follow up search process using a third search condition, and outputs the second transformed information in the second user designated display form,

wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents,

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

FEB. 16. 2010 7:41PM

NO. 1251 P. 12/14

Serial No. 10/766,039

19-22. (cancelled)